

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	)	PATENT APPLICATION
	)	
Inventors: Wei Pan, Jer-Shen Maa,	)	
David R. Evans and Sheng	)	
Teng Hsu	)	
	)	
Serial No.: Not Yet Assigned	)	Attorney Docket No.
	)	SLA 0493
Filed: Herewith	)	
	)	
Title: METHOD OF BARRIER METAL	)	
SURFACE TREATMENT PRIOR	)	
TO Cu DEPOSITION TO	)	
IMPROVE ADHESION AND	)	
TRENCH FILLING	)	
CHARACTERISTICS	)	
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**DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am the original, first and sole inventor (if one name is listed below), or the first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled,

**METHOD OF BARRIER METAL SURFACE TREATMENT PRIOR TO  
Cu DEPOSITION TO IMPROVE ADHESION AND TRENCH  
FILLING CHARACTERISTICS**

the specification of which (check applicable ones):

- ☒ is attached hereto;
- ☐ was filed with the above-identified "Filed" date and assigned the above-identified "Serial No.";
- ☐ was amended on (or amended through) \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by an amendment(s) referred to above. I acknowledge the duty to disclose information which is material to the examination of the application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole  
or first inventor:

Wei Pan

Residence:

17311 SE 23<sup>rd</sup> Way  
Vancouver, WA 98683

Post Office Address:

Same

Citizenship:

Peoples Republic of China

Inventor's signature: \_\_\_\_\_



Date: \_\_\_\_\_

3/28/01

\*\*\*\*\*

Full name of sole  
or second inventor: Jer-Shen Maa

Residence: 1511 SE Solomon Loop  
Vancouver, WA 98683

Post Office Address: Same

Citizenship: United States of America

Inventor's signature: Jer-shen Maa

Date: 3/28/2001

\*\*\*\*\*

Full name of sole  
or third inventor: David R. Evans

Residence: 7574 SW 179<sup>th</sup> Street  
Beaverton, OR 97007

Post Office Address: Same

Citizenship: United States

Inventor's signature: David R. Evans

Date: 28/Mar/2001

\*\*\*\*\*

Full name of sole  
or fourth inventor: Sheng Teng Hsu

Residence: 2216 NW Trout Court  
Camas, WA 98607

Post Office Address: Same

Citizenship: United States of America

Inventor's signature: Sheng Teng Hsu

Date: 03/28/01

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TRENCH FILLING	)	
CHARACTERISTICS	)	

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**POWER OF ATTORNEY BY ASSIGNEE**

Sharp Laboratories of America, Inc., a corporation of the State of Washington, Assignee of the entire right, title and interest in and to the above-identified patent application by an assignment document filed herewith, hereby appoints David C. Ripma, Reg. No. 27,672, Matthew D. Rabdau, Reg. No. 43,026 and Scott C. Krieger, Reg. No. 42,768, as its attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith; said appointment to be to the exclusion of the inventor and the inventor's attorneys in accordance with the provisions of 37 C.F.R. §3.71.

Pursuant to 37 C.F.R. §3.73(b) the undersigned submits herewith the original of an assignment document from the inventor or inventors to

Assignee, together with a cover sheet and the fee for recording same. The assignment has been reviewed and, to the best of the undersigned's knowledge and belief, title is in the Assignee. The undersigned, whose title is supplied below, is empowered to sign this power of Attorney on behalf of the Assignee.

Please direct all correspondence connected with this application to:

David C. Ripma, Patent Counsel  
Sharp Laboratories of America, Inc.  
5750 NW Pacific Rim Boulevard  
Camas, WA 98607  
Telephone: (360) 834-8754  
Facsimile: (360) 817-8505

Assignee:

Sharp Laboratories of America, Inc.

By:   
Title: President & CEO

Date:

3/28/01